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1 [Human-Computer Interaction in the Control of Dynamic Systems](#)



William B. Rouse

March 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.77 MB\)](#)
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Modes of human-computer interaction in the control of dynamic systems are discussed, and the problem of allocating tasks between human and computer considered. Models of human performance in a variety of tasks associated with the control of dynamic systems are reviewed. These models are evaluated in the context of a design example involving human-computer interaction in aircraft operations. Other examples include power plants, chemical plants, and ships.

Keywords: aircraft, control, dynamic systems, human-computer interaction, mathematical models, system design, task analysis

2 [The ISA expert system: a prototype system for failure diagnosis on the space station](#)



Christopher A. Marsh

 June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**

Publisher: ACM Press

Full text available: [pdf\(1.27 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Mission Operations Directorate (MOD) at the Johnson Space Center (JSC) is responsible for the safe operation and mission success of manned space flights. The MITRE Corporation, working with MOD, is developing requirements for the Operations Management System (OMS) to automate many aspects of flight control for the Space Station onboard systems. To help develop these requirements, the Integrated Status Assessment (ISA) expert system prototype was built to perform Station-wide fai ...

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S. Manivannan, Jerry Banks

December 1990 **Proceedings of the 22nd conference on Winter simulation WSC' 90**

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TL Fulton, WO Perkins - US Patent 4,680,753, 1987 - Google Patents

... respond to a TSA, the active **monitor** immediately polls ... such a system in which the programmable **controllers** ... bus through a communications **controller** having dual ...

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DA Kramer, AE Tousignant, RS Turner - US Patent 4,917,443, 1990 - Google Patents

... are detected, indicat- ing proper main **controller** operation, the **fail** ... to permit both the main **control**- ler and the **fail**-safe microprocessor to **monitor** the ...

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P Verissimo, L Rodrigues, M Baptista - ACM SIGCOMM Computer Communication Review, 1989 - portal.acm.org

... of the exposed MAC interface of a VLSI Lan **controller**. ... Host), by using intelligent network attach- ment **controllers** (NAC ... protocol is ran by a **monitor** func- tion ...

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RR Allen, G McLeod - US Patent 5,422,014, 1995 - Google Patents

... PREFERRED EMBODIMENTS provide a chemical **controller** for a water reservoir with ... matic chem ical **monitor** and **control** .system to maintain ...

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EM Pester III - US Patent 5,715,294, 1998 - Google Patents

... D8 LINKHISTDB RENAVE RMYTRAP **MONITOR** TRAPS CMD LOAD FROM **CONTROL** MONITORS EE3 THRESHOLD

EXCEEDED ... MON **FAIL** I PI **MONITOR** COUNT LINKS, MSUs & RESCT TRP ...

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Y Yamamoto - US Patent 5,134,712, 1992 - Google Patents

... in a state in which the 20 program 132 through a communication **controller** 18. ... **monitor** corresponding to the online **control** ... 50 another online **control** program. ...

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FF Ingrand, MP Georgeff, AS Rao - Expert, IEEE [see also IEEE Intelligent Systems and Their ..., 1992 - ieeexplore.ieee.org

... handling should support: Handling of transients Process con- trol systems mtist continmously measure and **monitor** different **control** parameters with ...

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DJ Powers, J Cyrus, S Kootstra, A Burkhalter, JD ... - US Patent 5,342,403, 1994 - Google Patents

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FM McGahee - US Patent 3,959,789, 1976 - Google Patents

... system which is rugged, relatively **fail** safe -run ... carrying case, including a credit **card monitor** comprising: means ... of any one of said credit **cards** and adapted ...[Cited by 15](#) - [Related Articles](#) - [Web Search](#)[\[PDF\] The SELEX Phototube RICH Detector - all 6 versions »](#)

J Engelfried, I Filimonov, J Kilmer, A Kozhevnikov ... - Arxiv preprint hep-ex/9811001, 1998 - arxiv.org

... and distributed to the **cards** via the backplane with ... the air stream for each crate to **monitor** this cooling ... system was improved, chips continued to **fail** at the ...[Cited by 43](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)[Copilot-a coprocessor-based kernel runtime integrity **monitor** - all 8 versions »](#)

NL Petroni Jr, T Fraser, J Molina, WA Arbaugh - Proceedings of the 13th conference on USENIX Security ..., 2004 - portal.acm.org

... The above detec- tion techniques will **fail** when run on a ... While in the first mode the **monitor** loads its initial ... As with all add-in **cards**, the EBSA remains able ...[Cited by 56](#) - [Related Articles](#) - [Web Search](#)[Fail-safe event driven transaction processing system and method - all 4 versions »](#)

KA Kearns, TR Jahanian, RE Jeffery - US Patent 5,805,798, 1998 - Google Patents

... from command facility 28 to configure, **monitor** and control ... ing the process flow of an exemplary **fail**-safe event ... the transaction by inserting a **card** issued by a ...[Cited by 16](#) - [Related Articles](#) - [Web Search](#)[Fail-soft architecture for public trunking system - all 4 versions »](#)

JS Childress, HH Hughes III - US Patent 5,175,866, 1992 - Google Patents

... **fails**, the trunking **cards** also begin performing trunking and other control functions. The trunking **cards** cease at -tempting to communicate with the **failed** site ...[Cited by 29](#) - [Related Articles](#) - [Web Search](#)[Why cryptosystems **fail** - all 94 versions »](#)

R Anderson - Proceedings of the 1st ACM conference on Computer and ..., 1993 - portal.acm.org

... in whatever organisation) to admit their **fail**- ures. ... The bank's systems not only **failed** to prevent this, but ... He then made up counterfeit **cards** and looted their ...[Cited by 380](#) - [Related Articles](#) - [Web Search](#)[Game - all 2 versions »](#)

G Leeson - US Patent 5,193,818, 1993 - Google Patents

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